

Appl. No. 09/976,327  
Amendment and/or Response  
Reply to Office action of 2 May 2003

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**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) A storage compartment equipped with a light emitting diode (LED) light source for illuminating contents inside the compartment,  
the LED light source comprising a LED light engine including a two-dimensional arrangement of LEDs outside the compartment and a light guide inside the compartment, the light guide being optically coupled to the LED light engine for bringing light illumination from the LED light engine into the compartment via the light guide, such that the two-dimensional pattern of LEDs forms an angular distribution of light input into the light guide with respect to the optical axis of the light guide.
2. (Original) The storage compartment of claim 1, in which output of the LED light engine is controllable to vary intensity of the illumination inside the compartment.
3. (Original) The storage compartment of claim 1, the LED light engine including a plurality of different colors of LEDs that contribute to the illumination inside the compartment.
4. (Original) The storage compartment of claim 3, the plurality of different colors including first, second, and third colors.
5. (Original) The storage compartment of claim 4, wherein the first, second, and third colors are red, green, and blue, respectively.

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6. (Original) The storage compartment of claim 4, in which respective outputs of the first, second, and third color LEDs are separately controllable to allow a variably controlled color point of the illumination inside the compartment.

7. (Original) The storage compartment of claim 6, in which total output of the first, second, and third color LEDs is controllable to vary intensity of the illumination inside the compartment.

8. (Original) The storage compartment of claim 4, in which total output of the first, second, and third color LEDs is controllable to vary intensity of the illumination inside the compartment.

9. (Currently amended) A method for illuminating frozen foods in a freezer cabinets, comprising:

providing a freezer cabinet with an externally mounted LED light engine including a plurality of LEDs arranged in a two-dimensional pattern,

providing the freezer cabinet with a light guide extending inside the cabinet, optically coupling the LED light engine to the light guide such that the two-dimensional pattern of LEDs forms an angular distribution of light input into the light guide with respect to the optical axis of the light guide, and

operating the LED light engine such that light is passed via the light guide into the interior of the cabinet to provide interior cabinet illumination at a first steady light level.

10. (Original) The method of claim 9, including varying output of the LED light engine to provide interior cabinet illumination at a second steady light level different from the first light level.

11. (Original) The method of claim 9, including providing the LED light engine with a plurality of different colors of LEDs that contribute to the illumination inside the compartment.

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12. (Original) The method of claim 11, the plurality of different colors including first, second, and third colors.

13. (Original) The method of claim 12, with the first, second, and third colors are red, green, and blue, respectively.

14. (Original) The method of claim 12, including varying respective outputs of the first, second, and third color LEDs to control color point of the illumination inside the compartment.

15. (Currently amended) The method of claim 14, including A method for illuminating frozen foods in a freezer cabinets, comprising:

providing a freezer cabinet with an externally mounted LED light engine provided with a plurality of different colors of LEDs, including first, second, and third colors, that contribute to the illumination inside the compartment,

providing the freezer cabinet with a light guide extending inside the cabinet, optically coupling the LED light engine to the light guide, and

operating the LED light engine such that light is passed via the light guide into the interior of the cabinet to provide interior cabinet illumination at a first steady light level;

varying respective outputs of the first, second, and third color LEDs to control color point of the illumination inside the compartment; and

providing at least one feedback sensor in at least one of the light engine and the cabinet, and controlling the color point of the illumination based on a signal received from the at least one feedback sensor.

16. (Original) The method of claim 15, wherein the feedback sensor senses color of contents of the cabinet and the color point of the illumination is changed automatically depending on the color of the contents of the cabinet.

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17. (Currently amended) The method of claim 14, including A method for illuminating frozen foods in a freezer cabinets, comprising:  
providing a freezer cabinet with an externally mounted LED light engine provided with a plurality of different colors of LEDs, including first, second, and third colors, that contribute to the illumination inside the compartment,  
providing the freezer cabinet with a light guide extending inside the cabinet, optically coupling the LED light engine to the light guide, and  
operating the LED light engine such that light is passed via the light guide into the interior of the cabinet to provide interior cabinet illumination at a first steady light level;  
varying respective outputs of the first, second, and third color LEDs to control color point of the illumination inside the compartment; and  
providing a user interface, and controlling the color point of the illumination based on a signal received from the user interface.

18. (Original) The method of claim 14, including varying total output of the first, second, and third color LEDs to vary total intensity of the illumination inside the compartment.

19. (Original) The method of claim 12, including varying total output of the first, second, and third color LEDs to vary total intensity of the illumination inside the compartment.